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27 May 1959

MEMORANDUM TO THE FILE

FROM :

SUBJECT: (AS-6 Base Station Trip Report)

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1. On 13 May 1959, the undersigned traveled to observe the operation of the AS-6 equipment and to obtain information relative to the installation of the AS-6 Base Station transmitting and receiving equipment.

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2. The base station receiver terminal equipment consists of four AS-4 type cabinets.

- a) Three of the four cabinets are identical, each representing one of the three r.f. channels "on receive" at any particular time. Each rack consists of two receivers, a recognition drawer, a control drawer, an AGC drawer, and a power supply.
- b) The fourth cabinet is the data cabinet consisting of an r.f. simulator, a control drawer, two recorders, an oscilloscope, and a power supply. All data channels of all six receivers may be checked by means of the r.f. simulator and the oscilloscope. This cabinet also contains the alarm system which actuates in the event of a power failure, a blower motor failure, or a received message.
- c) Two antenna multicouplers are required to couple the diversity antenna system into the six receivers.

3. The transmit terminal equipment consists of an interrogator cabinet and a 231-D transmitter. The interrogator cabinet produces two phase modulated signals, interrogation and receipt conditions, which modulate the carrier of a 231-D transmitter. A slight modification to the 231-D is required, very similar to but not as extensive as the modification required for the AS-4 transmitter equipment.

4. Installation time for the AS-6 equipment, including the antenna system, will be approximately three to four weeks. According to the the 231-D modification can be performed in about two hours.

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5. Remote control provisions permitting the interrogator functions to be controlled from the receiver site have not been completed. The required functions of interrogate - standby - receive will probably be placed on the [redacted] remote control auto-tune. It is planned to return three verification signals by means of [redacted] AFC units, all placed on a microwave voice channel.

6. On Saturday and Monday, May 16th and 18th, the writer observed the first two days of the [redacted] AS-6 tests. Due to apparent troubles in obtaining complete compatibility between the [redacted] collector and the [redacted] tests were not completely satisfactory the first two days. The base station did however receive two transmissions from the [redacted] on Monday.

7. While at the [redacted] the undersigned observed the progress on the AS-6, the RS-16B, and an experimental antenna tuner with possible field applications.

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